

10/582321

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	1 DATE				21 DATE				34 DATE				53 DATE			
	C	4(Hb)	4(Hb)	3(Hb+)	C	4(Hb)	4(Hb)	3(Hb+)	C	4(Hb)	4(Hb)	3(Hb+)	C	4(Hb)	4(Hb)	4(Hb)
Yield Components																
Root Yield (grams)	0.08a	0.07a	0.08a	0.08a	0.18a	0.14b	0.13b	0.16ab	0.30a	0.23ab	0.21b	0.24ab	0.58a	0.35b	0.45b	3.52b
Shoot/Root	2.51a	2.24ab	1.85b	2.25ab	3.10a	2.95b	2.18b	2.50b	4.08a	2.54c	2.81c	3.22b	4.05a	3.31b	3.43ab	4.14a
Leaf:Stem	1.30b	1.72a	1.58a	1.51ab	1.11c	1.75a	1.43b	1.45b	0.93b	1.17a	1.31a	1.16a	0.76b	0.88ab	1.10a	0.91c
Yield per Shoot (grams)	0.08a	0.04b	0.03b	0.03b	0.06a	0.05b	0.04b	0.04b	0.07a	0.04b	0.04b	0.04b	0.04b	0.05b	0.05b	0.16b
Stem Characteristics																
Total Stem Length (cm)	28.20a	26.37a	20.47a	59.30ab	48.27ab	39.83b	63.85a	146.77a	97.58b	91.77b	124.93ab	273.35a	226.17a	245.70a	209.03a	-
Stems per Plant	3.33b	4.08ab	4.67a	5.17a	7.33b	6.83b	11.50a	16.83ab	14.50b	13.97b	19.17a	25.33a	26.00a	30.53a	24.33a	46.00c
Mean Stem Length (cm)	9.30a	5.68b	5.25b	5.16b	8.57a	6.72ab	5.98b	5.68b	8.72a	6.77b	6.74b	10.71a	8.10b	7.89b	8.78b	-
MIL (cm)	1.53a	0.98b	0.84bc	0.80c	1.46a	1.22b	0.94b	0.92b	1.63a	1.31b	1.05c	1.06c	1.94c	1.47b	1.18c	1.30c
Nodes per Plant	18.83c	26.83ab	33.33a	24.33bc	41.17b	40.83b	42.00b	68.67a	90.33ab	74.00b	86.53b	117.00a	141.17b	153.83b	208.67a	160.17b
Nodes per Stem	6.01a	5.74a	6.55a	6.14a	5.61a	5.96a	6.38a	6.122a	5.96b	5.11b	6.43a	6.18a	5.53b	5.50b	6.67a	6.71a
Stem Diameter (mm)	0.94a	0.72b	0.63b	0.62b	1.10a	0.76b	0.80b	0.77b	1.05a	0.77b	0.82b	0.95b	1.15a	0.78b	0.80b	0.84b
SSW (g cm ⁻³)	3.42a	2.28b	2.37b	2.38b	4.84a	2.68b	2.68b	2.57b	4.33a	2.75b	2.94b	2.97b	4.88a	2.53c	3.08b	2.52c
Leaf Characteristics																
Leaf Area per Plant (cm ²)	27.40a	21.68ab	23.01ab	17.80b	69.53a	47.51b	44.12b	56.12ab	128.74a	69.51c	78.25b	98.42b	223.68a	114.48c	156.08b	128.42bc
Area per Leaf (cm ²)	1.08a	0.74b	0.67b	0.64b	1.40a	1.02b	0.78bc	0.67c	1.44a	0.94b	0.74c	1.45b	1.45b	0.82b	0.66c	0.63c
SLW (cm ² g ⁻¹)	4.43a	4.75a	4.27a	4.07a	4.47a	4.28a	3.78a	4.07b	4.55a	4.48ab	4.27ab	4.05b	4.47b	4.82b	4.66a	4.61a
Trifoliates per Plant	24.85ab	29.67ab	38.17a	27.00b	51.00c	46.35ab	56.35b	87.33a	90.50bc	74.00c	107.67ab	126.87a	158.50bc	140.17c	249.33a	198.17ab
Reproductive																
MSC	0.7	0.0	0.0	0.0	1.5	0.5	0.7	0.7	2.0	1.0	1.0	2.8	1.3	1.5	1.3	4.3
Days to First Flower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47.30	59.5a
Racemes per Plant	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61.00a	54.4a
Florets per Raceme	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5a	11.0a

Different Letters within harvests represent significant differences at (P<0.05) according to Fisher's LSD test

ML = Mean Internode Length, SLW = Specific Leaf Weight, MSC = Mean Stage by Count

MSC calculations: 14.21, 28.35 DATP (longest stem), 72 DATP (whole plant)

FIGURE 1

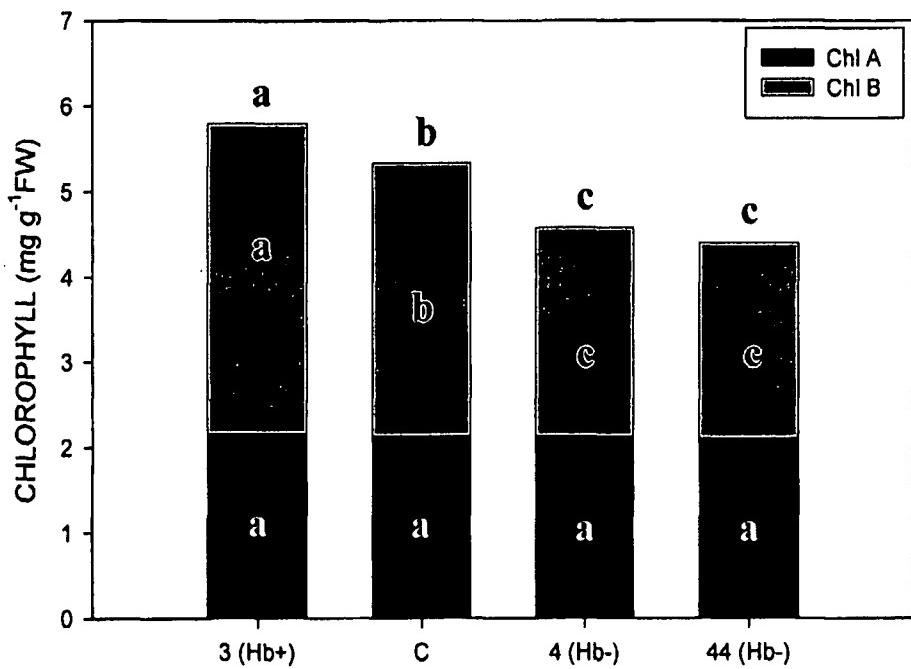
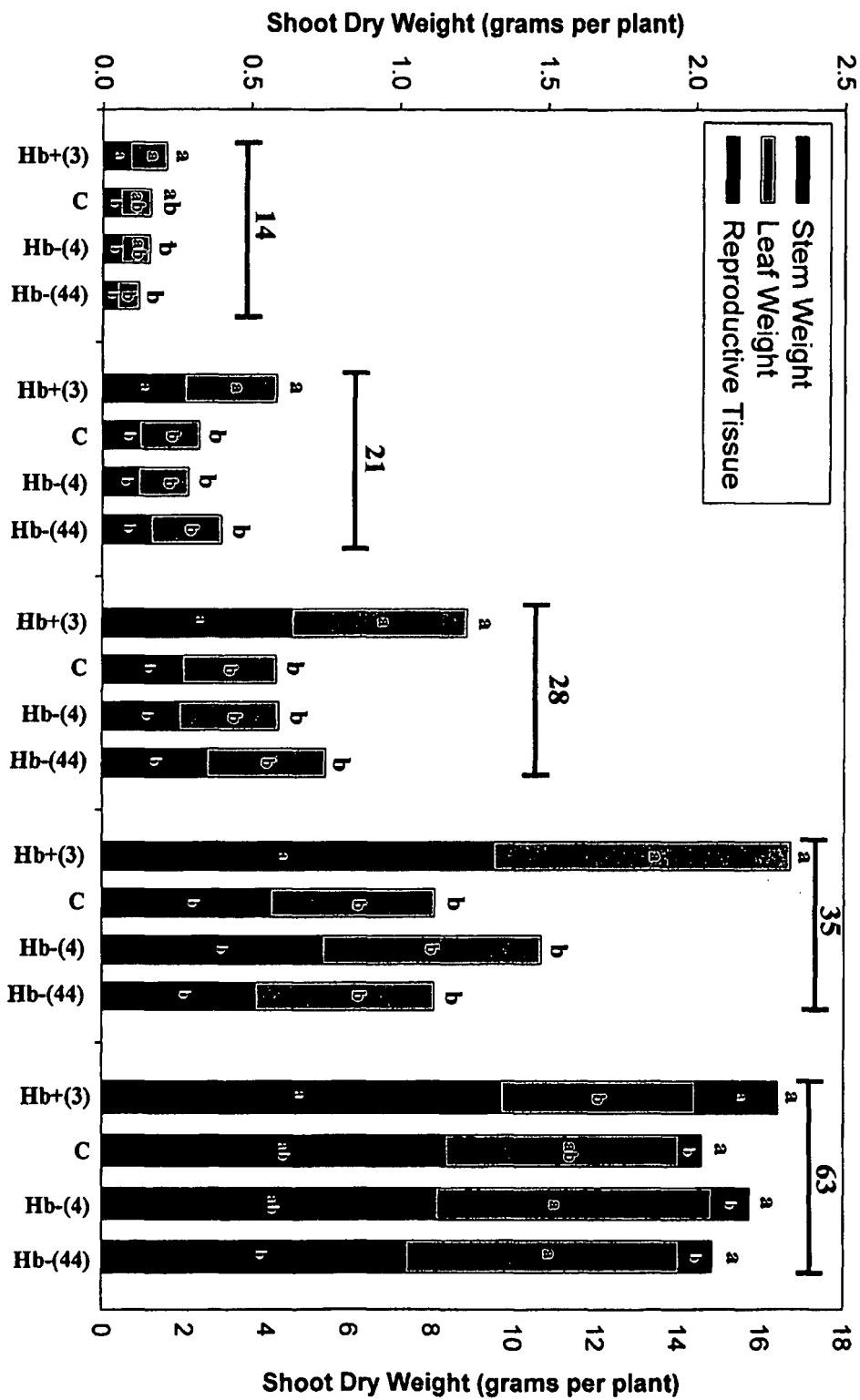


FIGURE 2

**FIGURE 3**

Shoot Morphology

**Leaf:Stem and Shoot:Root Ratios of Transgenic Alfalfa
(28 days after transplanting)**

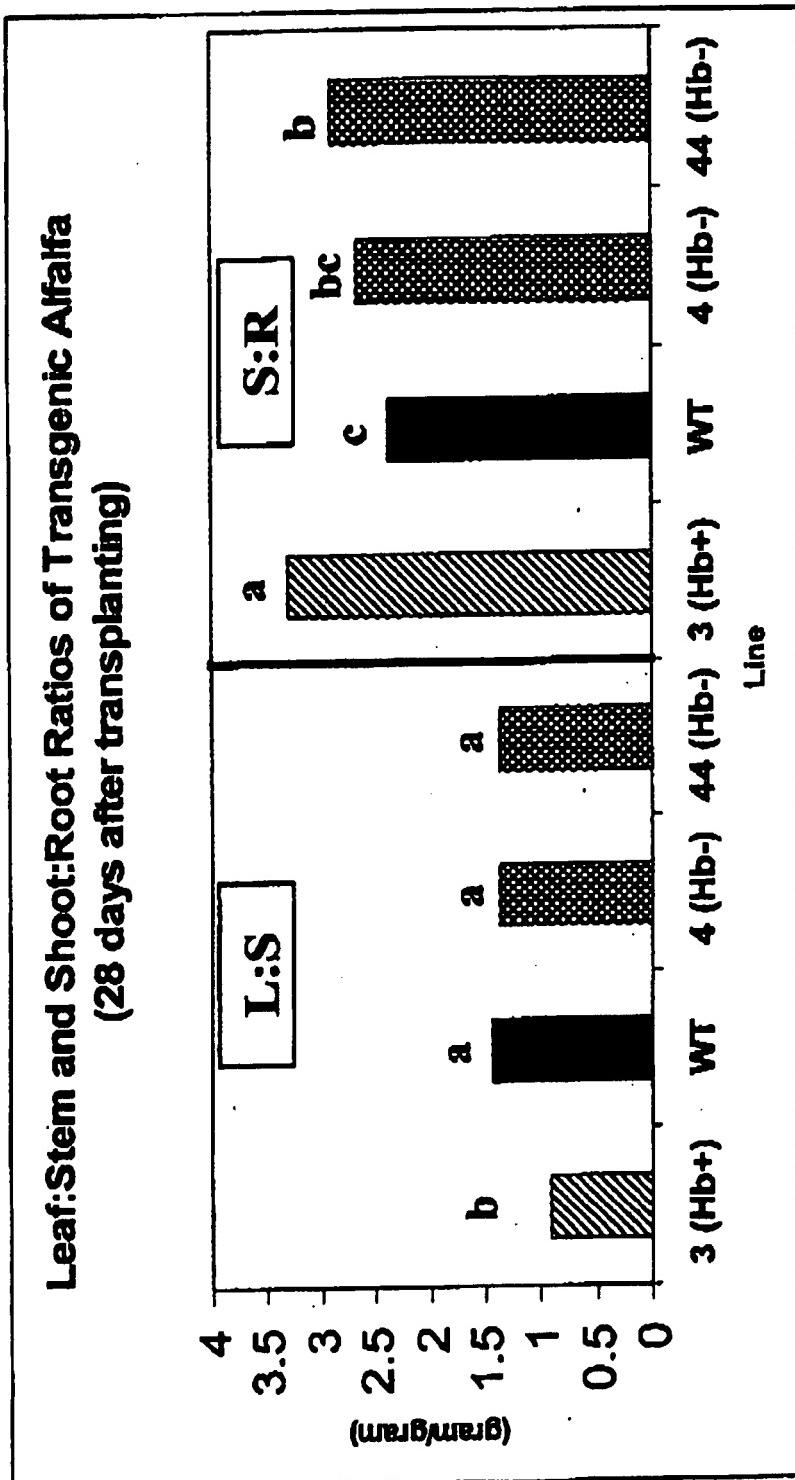


FIGURE 4

Root Morphology

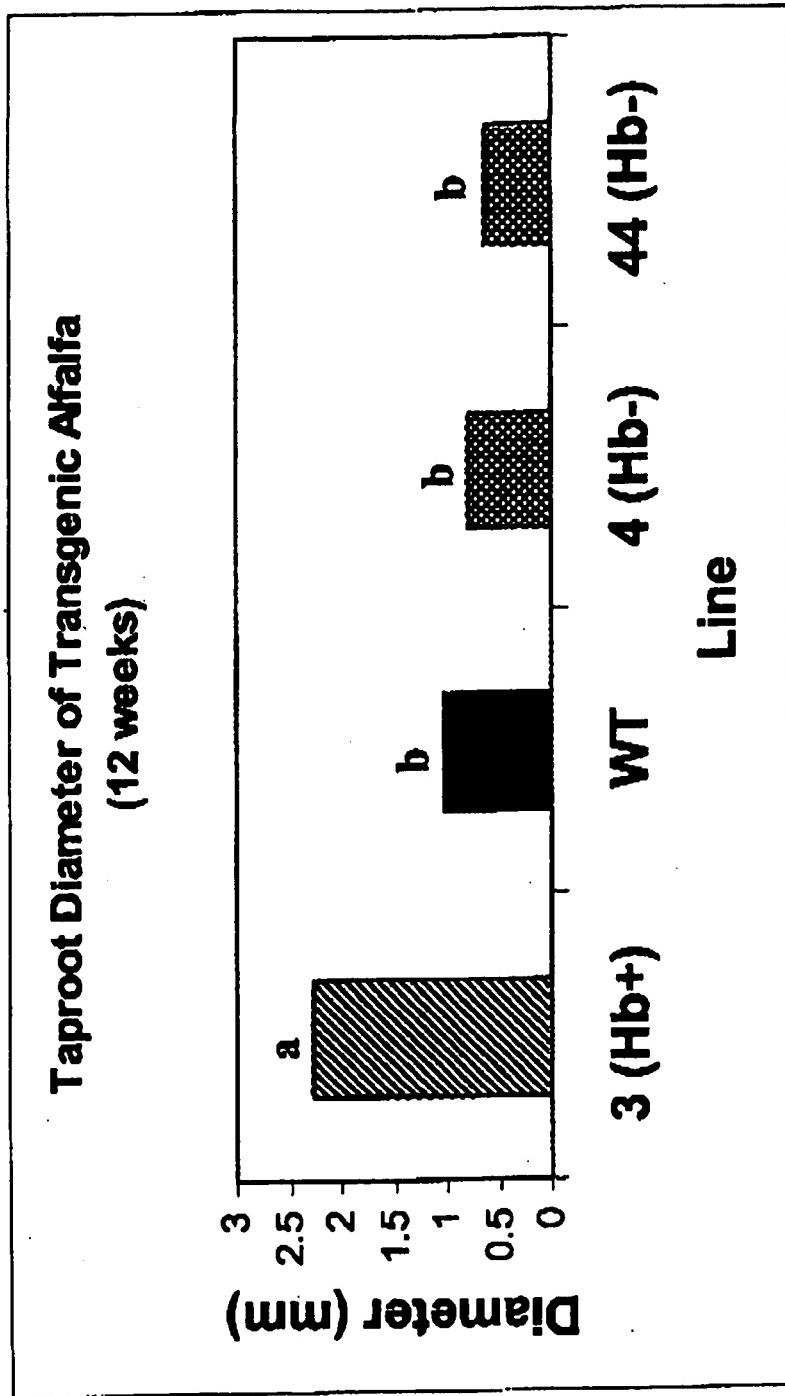
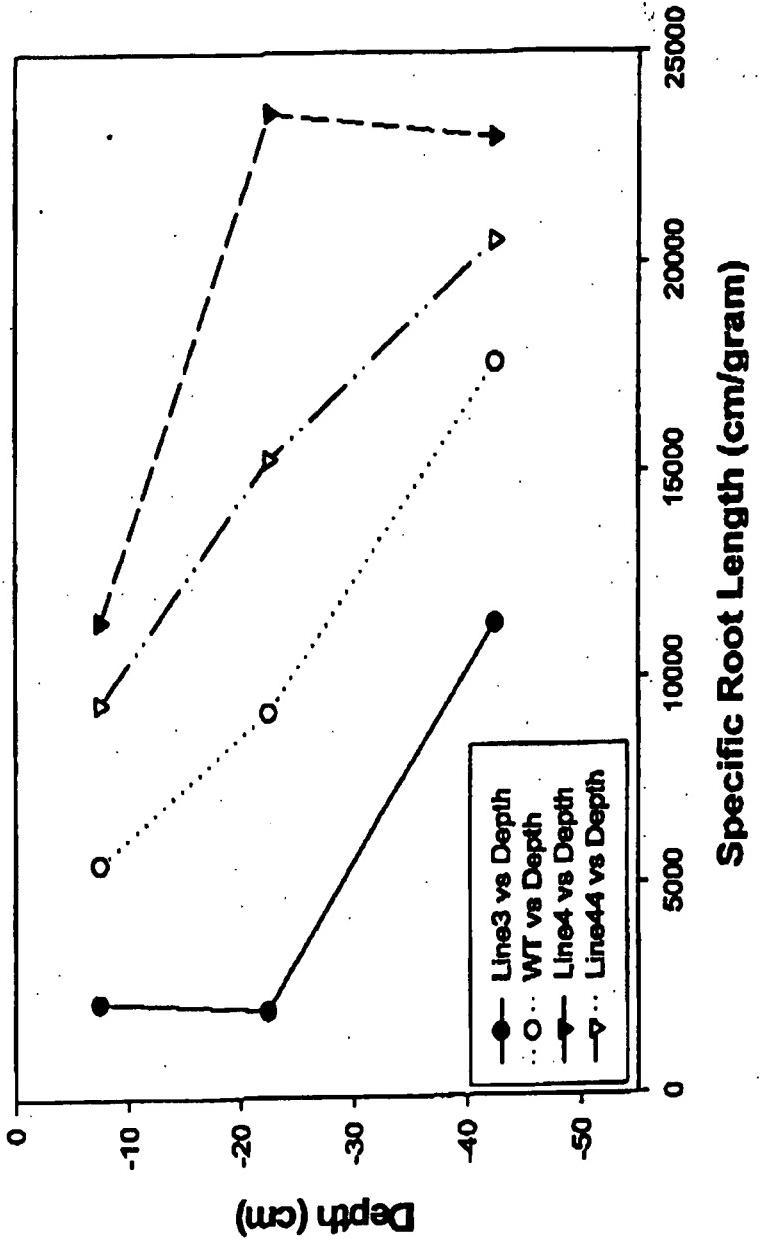


FIGURE 5

Root Morphology

Specific Root Length
(12 week)



LSD for Root System = 2900 cm

FIGURE 6